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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/079,040	02/20/2002	Peter L. Ryan	RU-0176	6411
759	90 07/28/2004		EXAMINER	
Licata & Tyrrell P.C. 66 E. Main Street			DAVIS, DEBORAH A	
Marlton, NJ 08053			ART UNIT	PAPER NUMBER
			1641	
			DATE MAILED: 07/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/079,040	RYAN ET AL.			
		Examiner	Art Unit			
		Deborah A Davis	1641			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE M - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFR RIX (6) MONTHS from the mailing date of this communication. beened for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by stated by the Office later than three months after the mand patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be the reply within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS frouture, cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1)🛛 🛚	Responsive to communication(s) filed on <u>6-</u>	<u>25-04</u> .				
,—	· · · · · · · · · · · · · · · · · · ·	his action is non-final.	•			
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositio	on of Claims					
5)	Claim(s) <u>1</u> is/are pending in the application. (a) Of the above claim(s) is/are withd Claim(s) is/are allowed. Claim(s) <u>1</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and					
Application	on Papers	•				
9)□ T	The specification is objected to by the Exam	iner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents 3. Copies of the certified copies of the priority documents	ents have been received. ents have been received in Applica riority documents have been receiv	tion No			
	ee the attached detailed Office action for a	ist of the certified copies not receiv	red.			
Attachment(1) Notice	of References Cited (PTO-892)	4) 🔲 Interview Summar				
2) Notice 3) Inform	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/NO(s)/Mail Date	Paper No(s)/Mail I				

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 25, 2004 has been entered. Claim 2 have been cancelled and claim 1 is pending and under examination.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claim 1 is drawn to a method for evaluating treatment efficacy in pregnant mares affected by a disease or condition that alters placental function and results in a problematic pregnancy or delivery. Claim 1 further measures a first level of relaxin in plasma of a pregnant mare that has or is suspected of having a disease or condition that alters placental function, wherein the level is measured before administration of drug or treatment for the disease or condition. Claim 1 further measures levels of relaxin in plasma of the mare following administration of the drug or treatment from the first day of treatment until time of delivery in the mare, wherein a failure of the plasma relaxin levels to increase following drug or treatment administration is indicative of a non-effective treatment in preventing a problematic pregnancy or delivery in the mare.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al (one) (Breed Differences in circulating Equine Relaxin, Biology of Reproduction, 1992, Vol. 46, pages 648-652) in view of Stewart et al (two) (Relaxin activity in foaling mares, Journal of Reproduction and Fertility. Supplement, (1982) Vol. 32, pages 603-609)

Stewart et al (one) teaches a method for measuring levels of relaxin in plasma of a pregnant mare before and after the administration of a drug-or treatment (see abstract and introduction) wherein a homologous equine relaxin Radio Immunoassay (RIA) has been developed and used to measure plasma relaxin activity in thoroughbred mares during gestation until the time of foaling. Burros and Thoroughbred mares stimulated to deliver with oxytocin (treatment) showed an elevation in relaxin levels wherein the sensitivity to oxytocin (treatment) appears to develop late in gestation, as mares

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induced to abort in midpregnancy did not show a rise in relaxin (page 651, column 2, paragraph 2). Animals that exhibited adverse pregnancy outcomes had depressed relaxin concentrations at some point during gestation prior to the loss (page 651, column 2, paragraph 2).

Stewart et al (1) does not teach the evaluation of a treatment wherein the failure of the plasma relaxin levels to increase following a treatment or drug is indicative of a non-effective treatment in preventing problematic pregnancy or delivery in the mare.

However, Stewart et al (two) teaches the administration of oxytocin in pregnant mares resulted in an increase of plasma relaxin levels at foaling and after foaling, but when oxytocin was administered to mares after placental delivery, the mares failed to elicit an increase in relaxin levels.

It would have been obvious to one of ordinary skill in the art to modify the teaching of Stewart et al (one) to include evaluating oxytocin as a treatment for conditions that alter placental function because increase and decrease in relaxin levels are directly correlated with placental function as disclosed in Stewart et al (two). One of ordinary skill in the art would have been motivated to use oxytocin on mares with a disease or-condition to determine if levels of relaxin can be stabilized in mares with a disease or condition that would alter placental function.

Response to Arguments

4. Applicant's arguments with respect to the reference of Stewart et al (one) does not teach or suggest any method of evaluating drugs or treatments for mares with

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problematic pregnancies or deliveries via measurement of increasing plasma relaxin levels and failure to increase is indicative of a non-effective treatment have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. As for reasons aforementioned above, no claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah A Davis whose telephone number is (571) 272-0818. The examiner can normally be reached on 8-5 Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Deborah A. Davis

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Remsen Blog Room 3D58

July 21, 2004